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(54) Title: PROCESS FOR THE PREPARATION OF HYDROXY-VINYL-AROMATIC POLYMERS OR COPOLYMERS BY ANIONIC OR CONTROLLED RADICAL POLYMERIZATION

(57) Abstract: The instant invention relates to a process for the preparation of hydroxy-vinyl-aromatic polymers in particular 4-hydroxystyrene polymers or copolymers by anionic or controlled radical polymerization of the respective monomer, wherein the hydroxy functionality is blocked with a protective group which is subsequently removed by reacting it with a halosilane reagent. The resulting (co)polymers have a narrow polydispersity and are useful for manufacturing photoresists.

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/50793

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C08F12/22 G03F7/039

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C08F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 107 425 A (R. SINTA) 22 August 2000 (2000-08-22) cited in the application claims 1,9; example 5	1-18
X	EP 0 488 748 A (SHIN-ETSU CHEM. CO.) 3 June 1992 (1992-06-03) claims 1,4	1, 18

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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			EP	0488748 A1	03-06-1992